005260 "h268960

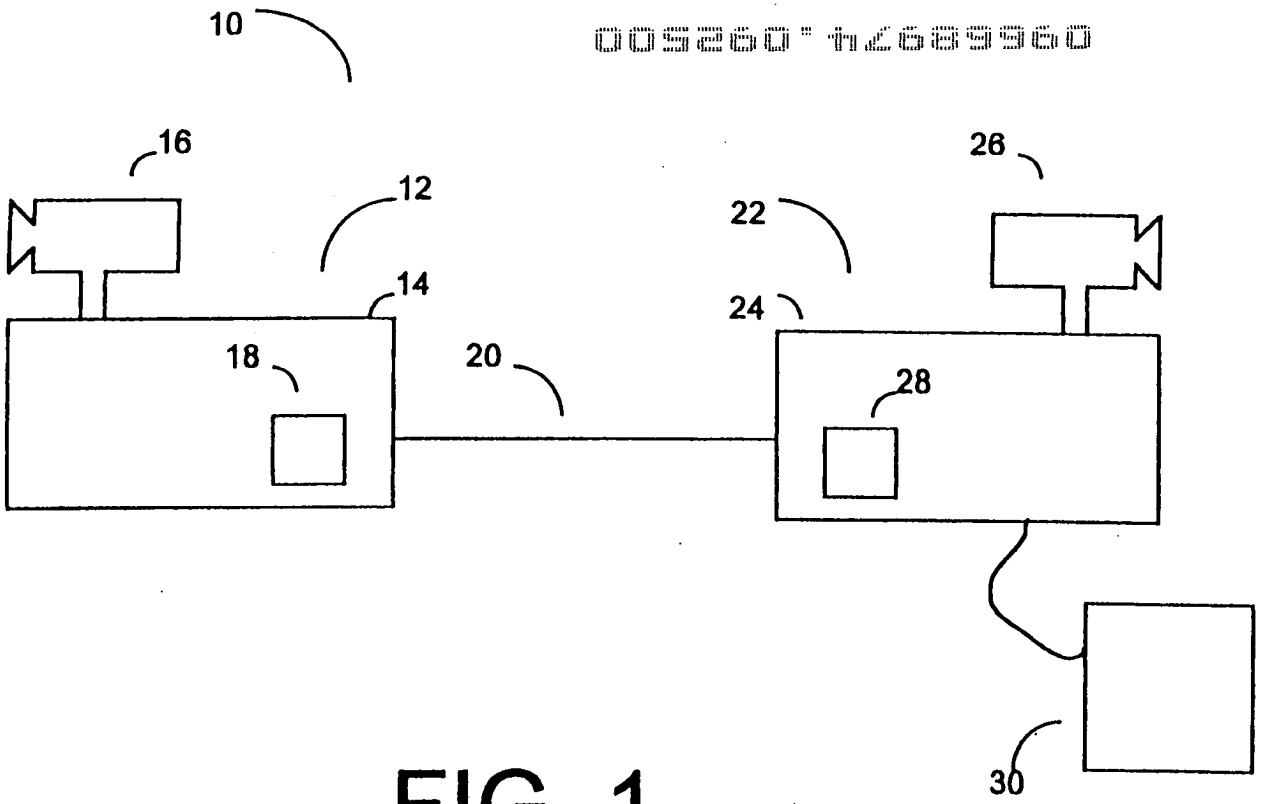


FIG. 1

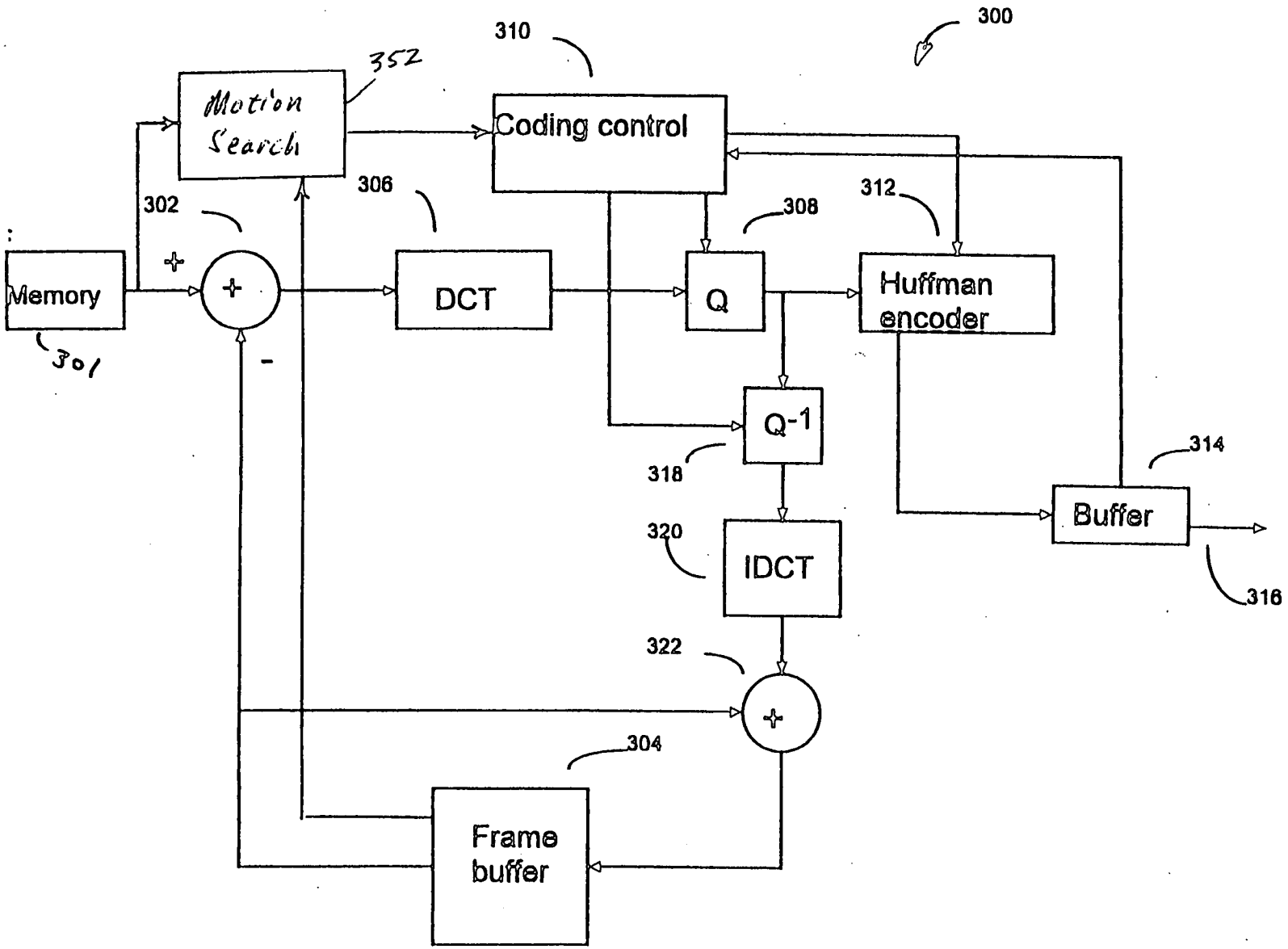
300
310
352
Motion Search
Coding control
306
308
312
302
Memory
301
DCT
Q
Huffman encoder
Q-1
318
314
Buffer
320
IDCT
316
322
304
Frame buffer

FIG. 2

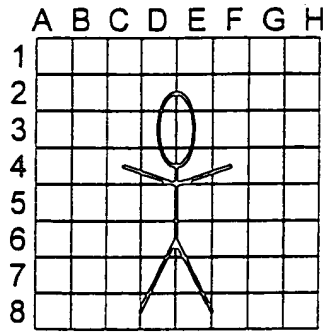


FIG. 3A

Frame 0 (initial frame)
Select initial quantization level
Code all blocks

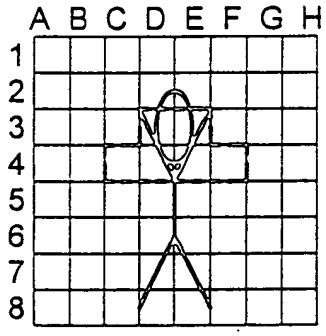


FIG. 3B

Frame 1
Select quantization range for coding changed blocks
Code the changed blocks 2D-E, 3D-E, 4C-F
Skip the other blocks and track the skipped blocks
Skipped blocks = {1A-H, 2A-C, 2F-H, 3A-C, 3F-H, 4A-B, 4G-H, 5A-H, 6A-H, 7A-H, 8A-H}

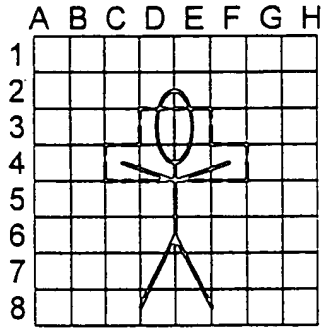


FIG. 3C

Frame 2
Select quantization range for coding changed blocks
Code the changed blocks: 2D-E, 3D-E, 4C-F
Skip the other blocks and track the skipped blocks
Skipped blocks = {1A-H, 2A-C, 2F-H, 3A-C, 3F-H, 4A-B, 4G-H, 5A-H, 6A-H, 7A-H, 8A-H}

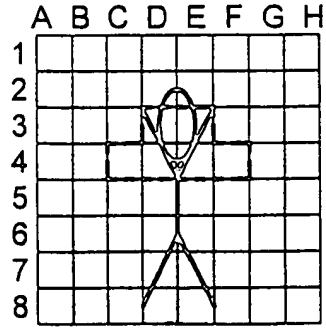


FIG. 3D

Frame 3
Select quantization range for coding skipped blocks
Code the previously skipped blocks:
1A-H, 2A-C, 2F-H, 3A-C, 3F-H, 4A-B, 4G-H, 5A-H, 6-H, 7A-H, 8A-H

FIG. 4A

FIG. 4B

FIG. 4

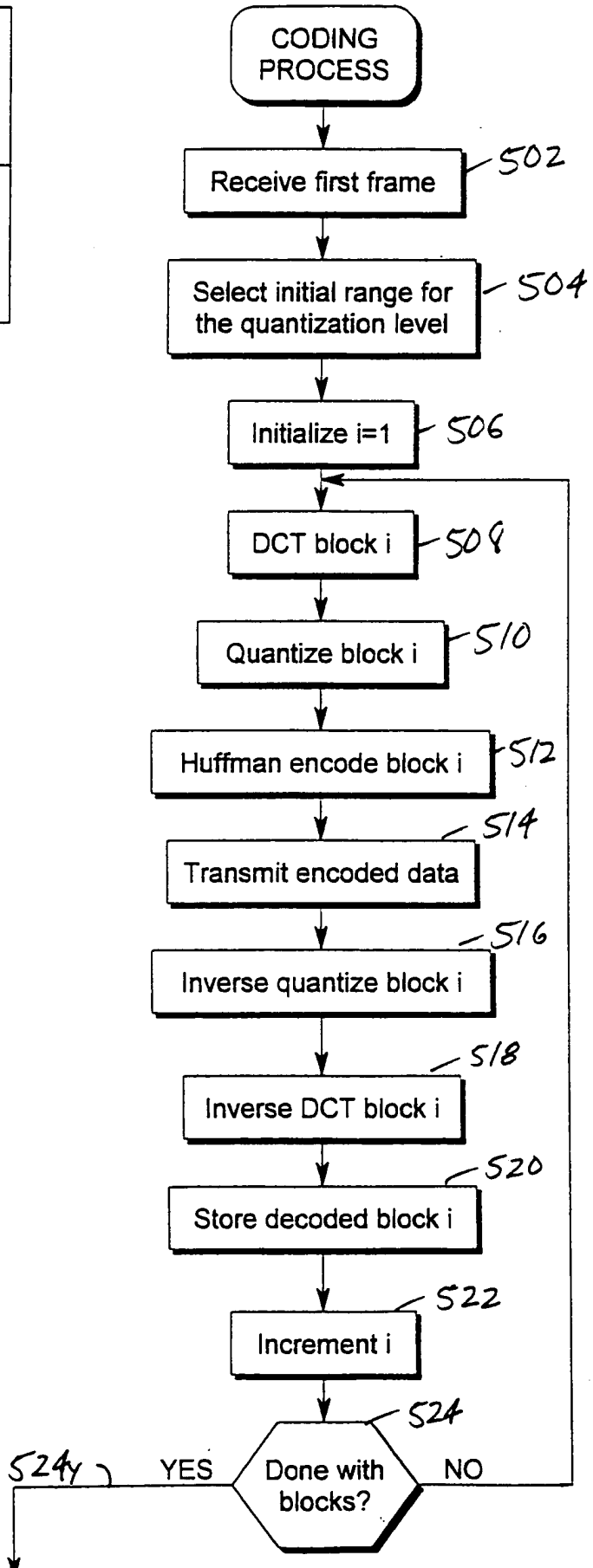


FIG. 4A

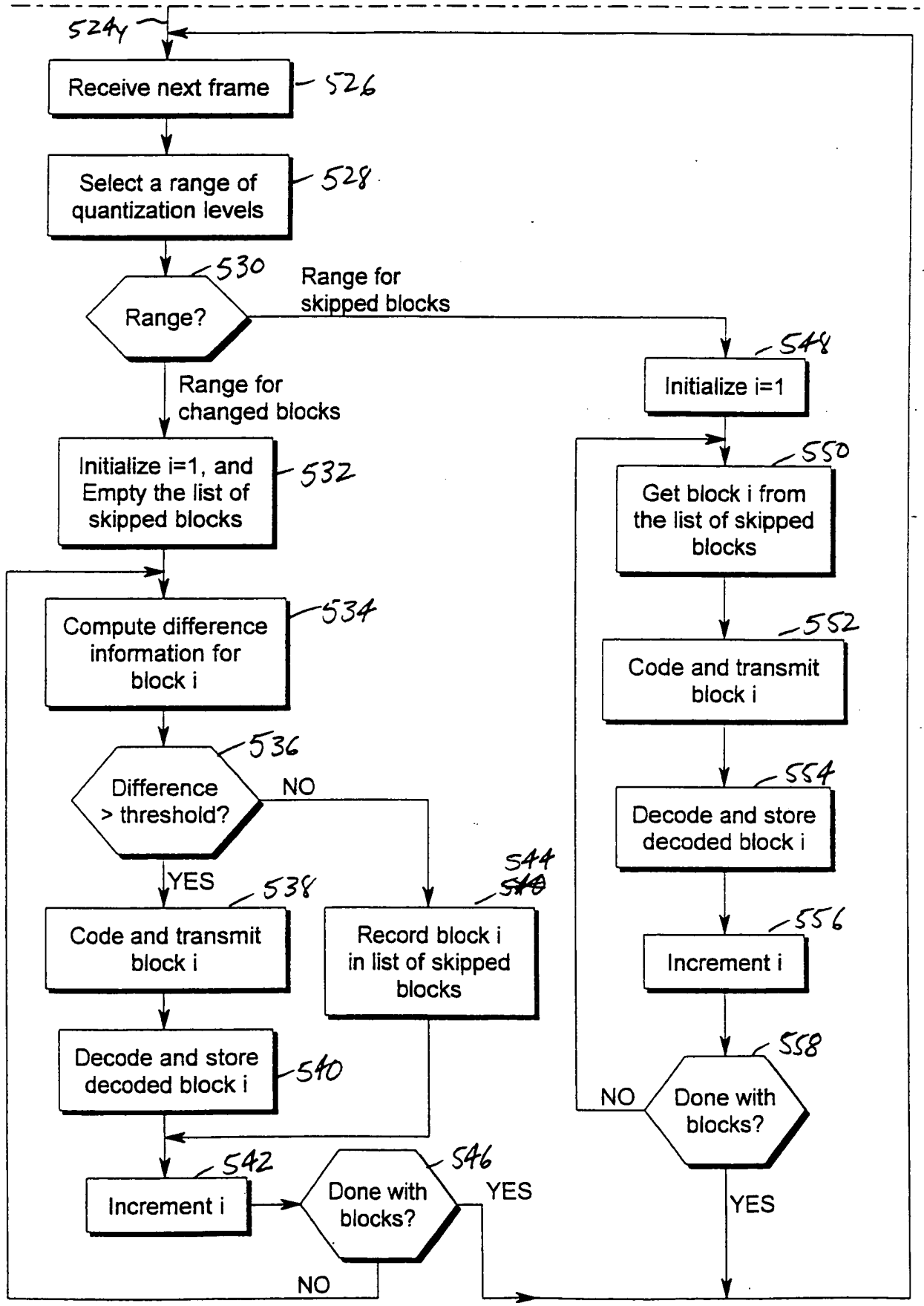
524
Receive next frame
526
Select a range of quantization levels
528
530
Range?
Range for skipped blocks
Range for changed blocks
Initialize i=1, and Empty the list of skipped blocks
532
Compute difference information for block i
534
536
Difference > threshold?
NO
YES
538
Code and transmit block i
544
Record block i in list of skipped blocks
Decode and store decoded block i
540
542
Increment i
546
Done with blocks?
YES
NO
548
Initialize i=1
550
Get block i from the list of skipped blocks
552
Code and transmit block i
554
Decode and store decoded block i
556
Increment i
558
NO
Done with blocks?
YES

FIG. 4B